



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re U.S. Patent application of:

|                              |   |                                   |
|------------------------------|---|-----------------------------------|
| Hans-Peter Call              | ) | Examiner: Harry J. Guttman, Ph.D. |
| Serial No.: 09/446,373       | ) |                                   |
| Filed June 19, 1998          | ) | Group Art Unit: 1651              |
| For: OXIDATION AND BLEACHING | ) |                                   |
| SYSTEM WITH ENZYMATICALLY    | ) |                                   |
| PRODUCED OXIDIZING AGENTS    | ) |                                   |

Übach-Palenberg, Germany, February 24, 2002

Assistant Commissioner for Patents  
Washington, DC 20231

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**RESPONSE TO THE OFFICE ACTION DATED AUGUST 28, 2001**

Sir:

This paper is submitted in response to the Office Action dated August 28, 2001.

**RESPONSE: STATUS OF THE APPLICATION**

It has additionally to be pointed out that there is a mistake in the assigning of the different claims to the corresponding groups:

- Group I: claims 50- 87 and 100 (pulp delignification/ bleaching)
- Group II: claims 80, 89 and 100 (waste water treatment)
- Group III: claims 80, 89 and 100 ( wood composites)
- Group IV: claims 80, 90-93 and 100 (deinking of waste water)
- Group V: claims 80, 94, 95 and 100 (oxidation reactions in chemical synthesis)
- Group VI: claims 80, 96 and 100 ( liquefaction of coal)
- Group VII: claims 80, 97, 98 and 100 (detergent)
- Group VIII: claims 80, 99 and 100 (textile bleaching) → this group is missing

It is true that claim 80 and 100 are duplicates. Claim 100 can therefore be cancelled.

**RESPONSE TO ELECTION/RESTRICTION REQUIREMENT**

In continuation of the response to restriction requirements of the Office Action dated December 15, 2000 ( you find attached: **Appendix I**) from June 13, 2001, nevertheless I would like to repeat and extend my argumentations as follows:

The general inventive concept is the generation of active oxygen species e.g. dioxiranes. This generation takes place by the reaction of a lipase, fatty acids and peroxide → formation of perfatty acids and in the presence of an appropriate ketone the formation of the mentioned dioxiranes.